

reflecta[®]

xM-Scan

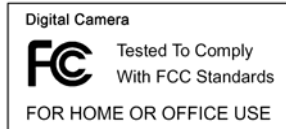


User manual

For customers in North and South America

For customers in USA

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:



- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For customers in Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

For customers in Europe



"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" mark cameras are intended for sales in Europe.

1. Name of parts



Note: This film scanner supports Windows XP SP2 / Vista and 7 via USB 2.0 only.

Please make sure your film negatives/mounted slides and cover trays are clean before inserting into the scanner as well. Dust or dirt from the negatives and cover trays will affect the quality of your scanned images.

We strongly suggest using a clean, dry, non-alcohol cotton swab or the cleaning brush that is included with your unit to insert into the film scanner slot and clean the glass surface periodically to produce a clear image.

2 How to install slides and film into the tray holder

a. Open the film holder as illustrated



b. Put a film/slide in the film/slide slot as shown.

Note: Do not flip the film/slide. If flipped, the pictures will be scanned backwards.



c. Close the film/slide holder



Cleaning the dust from the film scanner lens:

Open the MediaImpression 2 software as if you were about to **convert** a picture.

Do not insert any slides or negatives into the film **converter** slot. You will be able to see the dust that is on the lens from the MediaImpression 2 live view window. (See the example shown below) Then you can use the cleaning brush to wipe the dust.



We strongly suggest using a clean, dry, non-alcohol cotton swab or the cleaning brush that is included with your unit to insert into the film scanner slot and clean the glass surface periodically to produce a clear image.

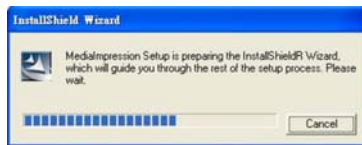
3. Installing the software

1. Insert the installation CD into the CD-ROM drive and the installation CD menu should appear.
2. When you see the following screen, choose "Arcsoft Software" to install the software.



Windows XP and Windows Vista directions:

1. Media Impression will start the installation.



2. Click Next to continue.

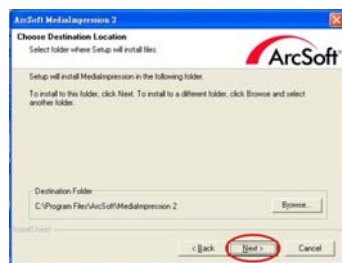


4. Click Next to have Media Impressions download into your Programs

3. Click on Yes to agree to the terms and conditions



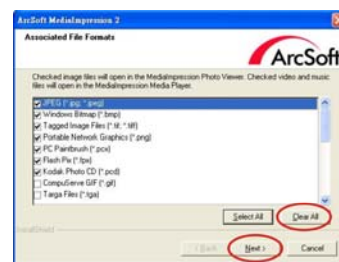
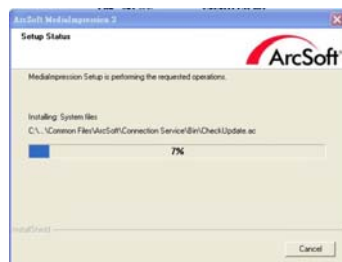
5. Click Next to continue



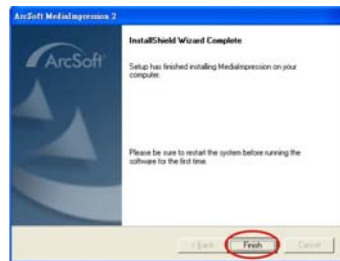
6. Media Impressions will start the setup.
process



7. Once you get this screen select "Clear All"
so that MediaImpressions does not take
over the files on your computer.



8. Click on Finish to complete and restart the computer.

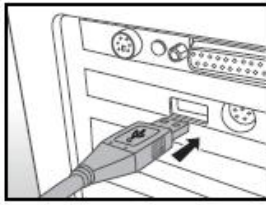


9. The installed software will automatically create a **"Media Impression 2"** logo on your desktop. Restart the computer and remove the installation disk.

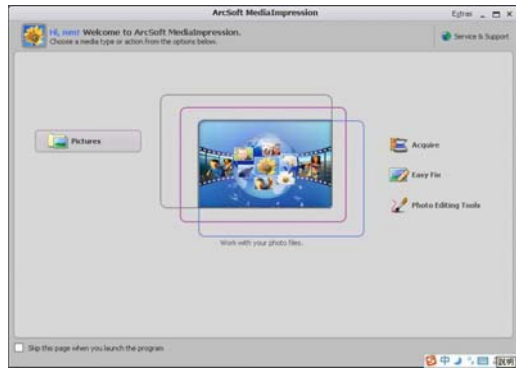
Note: If a "Code 10 error" appears on your screen when using the program, please do not unplug your device from the USB port of your computer. Please restart your computer and resume running the Media Impression program.

4. Using the slide and film converter.

1. Connect the device via USB to your computer, which will find a USB imaging device(no driver is needed)



2. Then double-click the icon on the desktop  to open the software, the main interface is shown as bellow:

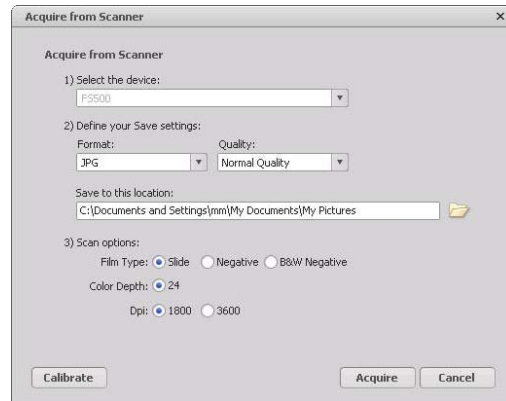


There are 4 buttons for options, respectively:

- *Pictures: to open an existing image
- *Acquire: for negative film shooting
- *Easy Fix: for fast processing image

*Photo Editing Tool: photo editing tools

3. Click Acquire in the Arcsoft MediaImpression interface option (if it is the first use, do not put the negative film until the system automatically obtains the data for calibration, then click OK) ,Pop-up settings dialog box is shown in the following figure.



As in the figure:

- 1) Select the device, the default FS500 can not be changed.
- 2) “format” defines your Save settings, which provides jpg and tif . “quality” for image quality setting, which provides highest, high, normal and low levels. The higher the level, the better the picture quality is and it also requires more storage space. “save to this location” stands for the selection of a save path to store your photos.

3) scan option: “slide” , “negative” and “B&W negative” , which stand respectively for positive , negative and back and white negative films, from which users may select according to their requirements. Color Depth is set as 24, which is unchangeable. Dpi stands for photo resolution which provides 1800 and 3600 as an option. In practical application, photos with 1800 resolution offers the size of 2520* 1680 (pixels) and 3600 5040* 3360 (pixels) .

NOTE: if the photos you take give obvious dead pixels, you can clear them in two ways.

1) First remove the film clip, then click to calibrate it.

2) Cleaning the dust from the film scanner lens

4. When the above settings are over, click 'Acquire' at the lower right corner on the interface of Acquire from Scanner, from where you get to the following shooting window shown as bellow.



5. Insert the loaded film jacket into the device, a corresponding films preview will appear in the shooting window.



6. Upon adjusting the film location, click Capture to shoot the photo.



Setting Buttons

Single click to open the earlier described setting dialog box Acquire from Scanner.



Adjustment

Single click to open the dialog box, drag the slider to set the parameters like the RGB scale, exposure, brightness, contrast and saturation for your photos.

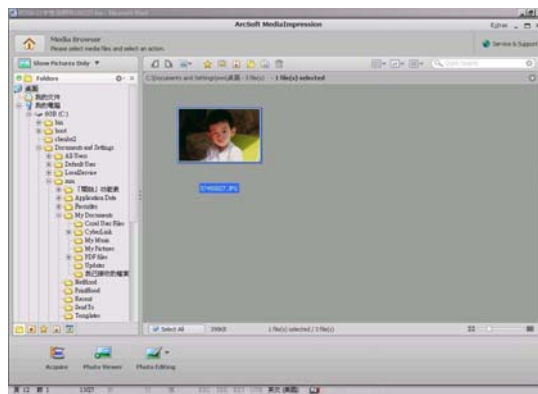


Press OK one by one to confirm the result after modification and press 'Lose' to close the shooting window after shooting.

5. Introduction to software features

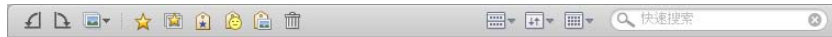
*Pictures

At initial page, click 'pictures' to preview the photos as in the following figure.



Choose the storage location by finding the right folders, then the corresponding photos are displayed on the right side of the previewing window.

A row of shortcut buttons are shown as in the fig. below.



Their functions (from the left to the right) are presented as:



Rotate Left

Left turn of the photo



Rotate Right

Right turn of the photo



Batch

Batch processing, which has three pull-down menu.

1. Batch convert, to batch convert photos and select the storage path of the converted.
2. Batch resize, to batch convert the sizes of the photos and select the storage path of the converted..
3. Batch rename, to batch rename photos and select the storage path of the converted.



Attach Rating

To add the appropriate rating to your photos, which has five rating levels to facilitate the classification or search by rating .



Auto Rating

Make automatic rating, which the system will automatic adds according to the photo attributes like the sizes, etc.



Attach Tags

Add tags of events or holidays, etc. to photos for classification and easy search.



Auto Face Tagging

Identify the face of the photo, you may choose the photos with the same faces for unified tagging, which facilitates easy classification and search.



Auto Scene Tagging

Automatic tagging for different scenes of the photos, which will facilitate easy classification and search.



Delete

Delete the corresponding photos.



Group By

Grouping options, which is based on folders, year, month, date, etc.



Sort By

Sort buttons, which helps the classification by the size of both the files and photos.



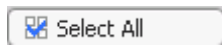
View By

Two kind of display modes to select: the thumbnail and list.



Search Bar

You can enter the names to search the photos.



Select All

Click once to select all, re-click to cancel it.



Zoom

Users can click the *narrow* picture on the left, and enlarge the photos by click *bigger* on the right side, or move the slider to choose the right size.

Three buttons below Photo review interface, which provides pages switch. Users can



click **Acquire**

to return to photo shooting page, click



Photo Review

to check every single photo, lick



Photo Editing to pull-down menu for a fast processing and photos editing.

***Easy Fix**

At initial page, choose “Easy Fix” to enter. The page is almost the same as Pictures” except



Easy Fix, which is the button for photos need to be modified, click it for an easy fix as the figure. below.



The options features are introduced respectively as follows.

Make all fixes

Select all fixes, click it for all fixing procedures and click “next” to complete the relevant steps.

Straighten it

Options for the rotation, users may slightly adjust the tilt of the photo according to their needs.

Crop it

Users may crop photos at the proportion of 4:6 or 5:7.

Fix Red—Eye

Remove red-eye option by which users can fix the ‘red-eye’ due to the flash light.

Add Brightness and contract

Every option is provided with 0-5 levels, one of which may be chosen according to user's need.

Sharpen it

Adjustment of sharpness with 0-5 levels available.

Adjust the color

Color adjustment by which users may drag the slider for RGB and black/white color.

Make the subject Stand out

The main subject is automatically selected from the photo. The user can adjust the boundary line sharpness and ambiguity by dragging the slider.

Saving Your Results

Edit photos by order, the user can cancel it, if not satisfied with the result by clicking *cancel*.

Once the edit is over, click “Save as” to save them then click “close” to complete *easy fix*.

*Photo Editing Tools



Photo Editing Tools has three option taps “Adjust” “ Retouch ” “Clipboard” , of which the functions are introduced respectively as follows.

Adjust

The option has 6 submenus, which are described respectively as follows.

Enhance

The Enhance feature includes two types of controls:



Auto Enhance

Click the "Auto Enhance" button to improve the overall quality of your pictures with a single click.

Manual Fix

For precise image enhancement control, adjust the brightness, contrast , saturation, Hue and sharpen.

How to enhance a photo manually:

1. Move the sliders to adjust the level of brightness and contrast and to make the image sharper.
2. Use the zoom slider to get a closer look at how the adjustment affects the photo.
3. Click "Apply" if you like the result. Click "Cancel" if you do not.

Color

This feature is designed to fix digital photos that have unnatural color or appear too dark. It's

also great for fixing scanned versions of old prints that have faded or whose colors have changed after many years of neglect.

How to fix the color of a photo:

1. Drag the color balance sliders to make the photo color appear more natural. Add red or yellow to make the photo warmer. Add blue or green to make the photo cooler.
2. Drag the Lighter/Darker slider to the left to reveal details hidden in a dark photo or to the right to make a faded photo look new again.
3. Click "Apply" if you like the result. Click "Cancel" if you do not.

Red-Eye

This feature makes it easy for you to fix a red eye - a common problem in flash photography.

There are two ways to fix redeye:



Auto Fix

1. Simply click the "Fix Red-Eye" button to automatically find and fix all red-eye .
2. If not all of the red eye is fixed, use the "Click to Fix" method.

Manual Fix

1. Use the zoom slider on the toolbar to zoom in on the photo.
2. Drag the small white box inside the zoom navigator to move over a red eye.
3. Place your cursor directly over the red eye and click.
4. Repeat the process until all the red eyes are fixed.
5. Click "Undo" if you make a mistake or don't like the result.

Crop

This feature enables you to trim photos for a dramatic effect or cut off the distracting parts of a picture.

How to use the crop function:

1. Choose the crop orientation (portrait or landscape).
2. Select a fixed proportion for the crop rectangle (4:6, 5:7, 8:10) or choose "Custom" if you want to use a different proportion.
3. Resize the crop rectangle by clicking and dragging the red lines.
4. Move the crop rectangle into position by clicking and dragging inside the red box.
5. Click "Crop". The area inside the rectangle will be kept, the area outside will be trimmed away.
6. Click "Undo" if you make a mistake or don't like the result.

Straighten

This feature enables you to fix photos that appear to be tilted.

How to use Straighten:

1. Move the slider (or click the rotate buttons) until the photo appears straight.
2. Use the superimposed grid lines for vertical and horizontal reference.
3. Click "Apply" if you like the result. Click "Cancel" if you do not.

Blur Background

This feature can be used in a subtle way -- to tone down un-important background details, or

for dramatic effect -- by making the main subject of a photo "pop out" of the picture.

How to use the Blur Background:

1. With your cursor, trace a line around the person or object you want to stand out. When you release the mouse button, the area outside the traced line will become slightly blurred.
2. Drag the first slider to make the transition between the blurred and non-blurred area sharp or smooth.
3. Drag the second slider to increase or decrease the amount of blur.
4. Click "Apply" if you like the result. Click "Cancel" if you do not.

Saving Your Results

When you're done editing a photo, click Save As to save your results. You can choose to overwrite the original file or save a new one.

Click "Close" to exit the Photo Editing Module.

Retouch



Healing Brush

The Healing Brush is good for fixing dust, scratches and removing skin blemishes.

How to use the Healing Brush to fix a skin blemish:

1. Establish a source point for the Healing Brush by holding the Shift key and clicking on an area of the skin that is close in color and texture to the area you want to heal.

2. Use the zoom control to zoom in on the blemish.
3. Adjust the size of the healing brush so the cursor (circle) is only slightly larger than the blemish.

4. Paint over the blemish. The area will be healed.

Click "Undo" if you make a mistake or don't like the result.



Clone

The Clone tool is good for removing unwanted elements from a photo. It can also be used for a fun effect, like moving a nose from one person to another.

How to use the Clone tool to remove a telephone pole from the background of a photo:

1. Establish a source point for the Clone tool by holding the Shift key and clicking on an area of the sky that you want to use to paint over the telephone pole.
2. Adjust the brush size so the cursor (circle) is only slightly larger than the widest part of the telephone pole.
3. Click and hold your mouse button and carefully paint over the telephone pole. Do not release the mouse button until the job is done. The sky will be cloned into place.

Click "Undo" if you make a mistake or don't like the result.



Lighten/Darken

The Lighten/Darken tool is good for adjusting specific areas of a photo.



Smudge

Simulate the smearing of wet paint. Please click and drag the sliders below to change the brush size and sharpness.



Sharpen

Sharpen blurry areas. Please click and drag the sliders below to change the brush size and transparency.



Blur

Smooth out rough areas. Please click and drag the sliders below to change the brush size and intensity.



Paint Brush

Let you to "paint" on your image when you click and drag the mouse. Please click and drag the sliders below to change the brush size and transparency.



Line

Draw a straight line in the photo. Please click and drag the sliders below to change the line width and transparency.



Eraser

Simulate an eraser, removing the image painting by paintbrush and line tools from your photo.

Please click and drag the sliders below to change the eraser size and effect.

Saving You Results

When you're done, click "Save As" button to save your results. You can overwrite the original file or save it as a new one. Or click "Cancel" to exit without saving.

Click "Close" to exit the Photo Editing Module.

Clipboard



Rectangular select

Select a rectangular area



Elliptical select

Select an elliptical area



Freehand select

Select a freehand area



Magic wand

Select an area with a tolerance range by the color



Magnetic select

Automatically capture the boundary line to select a suitable area

New

Set up a new selected area

Add

Add a selected area

Subtract

Subtract a selected area



select all

Select all photos



Inverse

Select the part other than the selected area



select none

Cancel the selected area



copy to clipboard

Copy the selected area



Paste form clipboard

Paste the selected area



delete

To delete an image for the clipboard

Saving Your Results

When you're done, click "Save As" button to save your results. You can overwrite the original file or save it as a new one. Or click "Cancel" to exit without saving.

Click "Close" to exit the Photo Editing Module.

Note: For more detailed information, please refer to the [Help] of the program.

6. Specification

Interface:	USB 2.0
Image Sensor:	1/1.8" inch 5 mega CMOS sensor (5,174,400 pixels)
Lens:	F no.=5.0, 2G+2P elements , View angle=55°
Frame Rate (Max.):	5 Megapixel (2520x1680) 2 fps
Focus Range:	Fixed focus
Exposure Control:	Automatic
Color Balance:	Automatic
Scan high resolution	5 Megapixel equal to 1,800 dpi (enhances to 3,600 dpi via interpolation)
Data Conversion	10 bits per color channel
Scan Method	Single pass
Light Source	Back light (3 white LED)
Power:	Powered from USB port
Dimensions(LxHxW)	94 X 100 X 96 mm
Weight	350g
Software Language	ArcSoft MediaImpression 2.0 will support the following 13 languages: Chinese Simplified, Chinese Traditional, Dutch, English, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, Spanish, Swedish
Operating Systems	Windows XP SP2 above / VISTA / Win 7

Computer System Requirement:

CPU: Pentium IV 1.6GHz or equivalent AMD Athlon (Intel core 2 Duo 2.0 GHZ or equivalent

AMD Athlon X2 processor recommended)

RAM: 512 MB (1GB or higher recommended)

Hard Disk: 300MB available hard disk space

Operation System: Windows XP SP2, Windows Vista and Windows 7